## Index to issues 364 to 375 (1981)

For the convenience of readers using this index to locate items of interest, the page numbers relate to the following issues:

1-40	January (No 364)	313-360	July (No 370)
41-88	February (No 365)	361-420	August/September (Nos 371/2)
89-132	March (No 366)		
133-204	April (No 367)	421-484	October (No 373)
205-260	May (No 368)	485-540	November (No 374)
261-312	June (No 369)	541-596	December (No 375)

#### **Authors Index**

Anderson, H. D 395	Fessas, Y. P	Lees, F. P. et al	Reay, D. A
Bailes, P. J. et al	Flett, D. S	Li, N. N	Robinson, M. J. et al 567
Barker, P. E	Geldart, D 11	Lindsay, J	Scanlon, K. E. et al 66 Schlesinger, C. B 431
Bettelheim, J. et al	Gerrard, A. M	Lloyd, P. J. D	Scuffham, J. B
Branston, J. J. et al 162	Godfrey, J. C. et al 331	Malan, D. N 442	Shepherd, A, et al
Browes, A. et al	Hawtin, P	Marquand, D	Solbett, J. M
Chappell, T. E. et al 377	Hoogendoorn, J. C 438	Marshall, E. C	Strutt, J. E. et al 567 Swarbrick, Ailsa 351
Chuah, C. H. et al	Ireland, F. E 281	McAusland, D. D. et al 229 Millington, C. A	Thambynayagam, R. K. M. et al
Cookson, A. J	Jones, A. M 503	Myles, C. C. et al 101	Turner, W. H. ei al 567
Csathy, D 159	Kantyka, T. A	Norman, P 111	Warner, Sir F 75, 551
Davidson, R. N 507 Duncan, K. D. et al 66	Kendrick, P	Othmer, D. F 19	Webb, J. A. et al
Duuren, F. A. van 440	Kragh, O. T. et al 149 Kraglund, A. et al	Philips, H 286	Windle, M. R. et al 377 Winter, P 58
Edmonds, B 51	Kyte, W. S. et al 275	Purchas, D. B 557	Wood, R. K. et al 58

# Subject Index See also title index

Benevolent Fund, Chemical Engineers 395 Boilers, waste-heat 159	Glucose/fructose mixtures, separation of
Canvey Island         403           Chromatography         389           Computer         111, 118, 377           (see also March issue topic)	Hazards       66, 237, 286, 456, 523         Heat exchangers       (April issue topic)         Hydrometallurgy       321
Consultancy   (December issue topic)	Liquid extraction (July issue topic) Loss prevention (see under HAZARDS)
(see also May issue topic)	Materials of construction (May issue topic) Membrane 325
Design	Microprocessor (March issue topic) and 567 Mixer/settler 328
Desulphurisation         275           Developing countries         515           Dryers         149	Nuclear energy
Education (January issue topic)	Process analysis
Effluent treatment (August/September issue topic) Electricity supply industry 226, 275	South Africa, new technology in (October issue topic)
Emissions to air (June issue topic)	Tools for the design engineer (February issue topic)
Feedstocks         19, 438           Filtration         579           Fluidised bed         278, 373	Universities
Fuels	Valves

## Index to issues 364 to 375 (1981)

For the convenience of readers using this index to locate items of interest, the page numbers relate to the following issues:

1-40	January (No 364)	313-360	July (No 370)
41-88	February (No 365)	361-420	August/September (Nos 371/2)
89-132	March (No 366)		
133-204	April (No 367)	421-484	October (No 373)
205-260	May (No 368)	485-540	November (No 374)
261-312	June (No 369)	541-596	December (No 375)

#### **Authors Index**

Anderson, H. D 395	Fessas, Y. P	Lees, F. P. et al	Reay, D. A
Bailes, P. J. et al	Flett, D. S	Li, N. N	Robinson, M. J. et al 567
Barker, P. E	Geldart, D 11	Lindsay, J	Scanlon, K. E. et al 66 Schlesinger, C. B 431
Bettelheim, J. et al	Gerrard, A. M	Lloyd, P. J. D	Scuffham, J. B
Branston, J. J. et al 162	Godfrey, J. C. et al 331	Malan, D. N 442	Shepherd, A, et al
Browes, A. et al	Hawtin, P	Marquand, D	Solbett, J. M
Chappell, T. E. et al 377	Hoogendoorn, J. C 438	Marshall, E. C	Strutt, J. E. et al 567 Swarbrick, Ailsa 351
Chuah, C. H. et al	Ireland, F. E 281	McAusland, D. D. et al 229 Millington, C. A	Thambynayagam, R. K. M. et al
Cookson, A. J	Jones, A. M 503	Myles, C. C. et al 101	Turner, W. H. ei al 567
Csathy, D 159	Kantyka, T. A	Norman, P 111	Warner, Sir F 75, 551
Davidson, R. N 507 Duncan, K. D. et al 66	Kendrick, P	Othmer, D. F 19	Webb, J. A. et al
Duuren, F. A. van 440	Kragh, O. T. et al 149 Kraglund, A. et al	Philips, H 286	Windle, M. R. et al 377 Winter, P 58
Edmonds, B 51	Kyte, W. S. et al 275	Purchas, D. B 557	Wood, R. K. et al 58

# Subject Index See also title index

Benevolent Fund, Chemical Engineers 395 Boilers, waste-heat 159	Glucose/fructose mixtures, separation of
Canvey Island         403           Chromatography         389           Computer         111, 118, 377           (see also March issue topic)	Hazards       66, 237, 286, 456, 523         Heat exchangers       (April issue topic)         Hydrometallurgy       321
Consultancy   (December issue topic)	Liquid extraction (July issue topic) Loss prevention (see under HAZARDS)
(see also May issue topic)	Materials of construction (May issue topic) Membrane 325
Design	Microprocessor (March issue topic) and 567 Mixer/settler 328
Desulphurisation         275           Developing countries         515           Dryers         149	Nuclear energy
Education (January issue topic)	Process analysis
Effluent treatment (August/September issue topic) Electricity supply industry 226, 275	South Africa, new technology in (October issue topic)
Emissions to air (June issue topic)	Tools for the design engineer (February issue topic)
Feedstocks         19, 438           Filtration         579           Fluidised bed         278, 373	Universities
Fuels	Valves

## **Title Index**

Academic Consultancy, by P. E. Barker	559	Meeting Reports—Fertiliser Nitrogen	232 579
The, by P. L. Baldwin	551	-Fluid Mixing	337
Alcohols as Fuels and Feedstocks, by D. F. Othmer	19	-Making Computer Control Work in the Process	221
Annual General Meeting, IChemE 58th, Minutes of the		Industries	118
Annual General Meeting, IChemE 59th, Report of the		-Marichem '80	27
Annual Report of the Council for 1980	185	-Mixing of Particulate Solids	245
Application of Computer Control to a Staple Fibre Dryer, by J. J.		-Particle Technology243,	301
Branston and G. S. Marsh	106	-Practical Liquid Waste Treatment	400
Application of Microprocessors to Corrosion Monitoring, by J. E.	200	-Reliable Production in the Process Industries	399
Strutt, M. J. Robinson and W. H. Turner	567	-Research and Development Priorities in Separa-	2//
	201	tion Processes	117
CMS: a Davy McKee Concept, by J. B. Scuffham	328	-Runaway Reactions, Unstable Products and	TAL
Case for Nuclear Energy, A, by W. L. Wilkinson288a,	345	Combustible Powders243,	301
Chemical Engineering for Developing Countries, by Y. P. Fessas	515	Microelectronics in Production Plant Control and Management, by	301
Chemical Engineering in South Africa, by C. B. Schlesinger	431	D. A. Sharman	99
	395	Minerals Processing Industry, The, by P. J. D. Lloyd	435
Chemical Engineers Benevolent Fund, The, by H. D. Anderson		Mixing of Particulate Solids (Meeting report)	
Coal as a Feedstock, by J. C. Hoogendoorn	438	mixing of Fanticulate Solids (meeting report)	245
Commissioning, Planning and Execution, by D. N. Malan	442	W	
Computer-based Centralised Control and Supervisory System for		Nomograms—a Tool for the Design Engineer, by O. P. Khar-	
an Effluent Treatment Plant, A, by M. R. Windle and T. E.		banda	52
Chappell	3//		
Construction Materials for Chemical Process Industries, by W. W.		One More Inquiry on Canvey Island	403
Marshall	221		
Consultancy, by Sir Frederick Warner	551	Panel Diagnosis Training for Major-Hazard Continuous-Process	
Consultancy Assignments—Managing to Satisfy both Client and		Installations, by E. C. Marshall, K. E. Scanlon, A. Shepherd	
Consultancy, by P. Kendrick	558	and K. D. Duncan	66
Continuing Education in Chemical Engineering, by D. Geldart	11	Particle Technology (Meeting report)243,	
Contractor as Consultant, The, by J. M. Solbett	556	Personal View of Consultancy in Government Laboratories, A, by	301
Corporate View, by T. Hill	501	P. Hawtin	555
DPS—An Engineer's Tool for Dynamic Process Analysis, by R. K.		PhD—Our Future, by J. Lindsay	
M. Thambynayagam, R. K. Wood and P. Winter	58	Physical Property Databanks for Small Computers, by P. Norman	111
Designing Liquid/Liquid Extraction Equipment, by P. J. Bailes,		Physical Property Data for Chemical Engineering Design, by Beryl	F 1
J. C. Godfrey and M. J. Slater	331	Edmonds	21
Design of Waste Heat Boilers, by D. Csathy	159	Plate Heat Exchangers for Effective Heat Transfer, by M. P. Bond	162
Desk Top Computers and Design Calculations, by J. R. Flower	54	Potential of Fluidised-Bed Combustion for Emission Control, The,	
Development of Materials and Fabrication Requirements for Oil-	24	by D. W. Gill	
		Powtech '81 (Exhibition review)246,	
field Production Valves in Sour (H <sub>2</sub> S/Chloride) Service, by D.	220	Practical Liquid Waste Treatment (Meeting report)	
D. McAusland and J. A. Webb	229	President of BSI (Interview with Sir Frederick Warner)	75
FIMT . F	252	Pressure Piling: a Problem for the Process Engineer, by J. S. Fitt	
EWT + Enpocon (exhibition review)	253	237,	523
Emissions to Air—Standards for Control in the United Kingdom,	201	Process Engineering Design, by P. G. Kauders	146
by F. E. Ireland		Project Engineer's View, The, by A. M. Jones	503
Encapsulation and Separation by Liquid Surfactant Membranes,		Pulp and Paper Industry in South Africa, The, by B. Coetzee	
by N. N. Li			
Energy Matters (interview with T. A. Kantyka)		Recent Developments in the Application of Liquid Extraction in	
Estuary Mixing, by R. E. Lewis		Hydrometallurgy, Some, by D. S. Flett	321
Exhibition Reviews—EWT + Enpocon	253	Reliable Production in the Process Industries (Meeting report)	399
—London Interflow	36	Research and Development Priorities in Separation Processes (Meeting	377
—Powtech '81246,	298		
· ·		report)	
Features of and Activities in Hazard and Operability (Hazop)		Rôle of the Software/Systems House in Microprocessor Projects in	
Studies, Some, by J. R. Roach and F. P. Lees		the Process Industry, The, by C. C. Myles and A. Browes	. 101
Fertiliser Nitrogen (Meeting report)173,		Runaway Reactions, Unstable Products and Combustible Powders	
Fifty Years' Experience of Flue Gas Desulphurisation at Power		(Meeting report)	291
Stations in the United Kingdom, by J. Bettelhein, W. S. Kyte,			
and A. Littler	275	Sequential Chromatographic Process for the Separation of	
Filtech '81: (Meeting report)		Glucose/Fructose Mixtures, A, by P. E. Barker and C. H. Chuah	1
Finniston Report: Commentary by Professors of Chemical		***************************************	389
Engineering	9	Should the IChemE be of Importance to an Academic? by G. S. G.	
Fluid Mixing (Meeting report)		Beveridge	
Forecasting Formulae, Some, by A. M. Gerrard	70		
		Taking Chemical Engineering into the Schools, by C. A. Milling-	
Future Changes in the Chemical Industry (New publication)	224	ton	
Hart Direct Hart Eurobanness In D. A. Danie	154	Technology Transfer—the Consultant's Prime Function, by C. J.	
Heat-Pipe Heat Exchangers, by D. A. Reay		Liddle	
Heat Recovery in Dryers, by O. T. Kragh and A. Kraglund	149	Little	221
ICI FO A F L C	460	No. of the Charles of	
IChemE Crest, An Explanation of		Unconfined Vapour Cloud Explosions: a New Look at Gugan's	
Individual Consultant, The, by D. B. Purchas	557	Book, by H. Philips	. 286
		University Companies, by D. J. Spikins	
Keeping the Operator in the Picture, by P. I. Burton	103	University Cuts We Cannot Afford, The, by D. Marquand	. 575
		Use of Biological Fluidised Beds for the Treatment of Domestic	
LOOP-A Process Control System Design Package, by J. Love .		and Industrial Wastewaters, The, by P. F. Cooper	. 373
London Interflow (Exhibition report)	36		
		View of a Manufacturer, The, by A. J. Cookson	
Making Computer Control Work in the Process Industries (Meeting		View of an Engineering Buyer, The, by R. N. Davison	507
report)	118		
Marichem '80 (Meeting report)		Water Utilisation in the Process Industries, by F. A. van Duuren	. 440
Materials of Construction in the Electricity Supply Industry, by R.		Wilkinson, W. L., IChemE President 1980/81	
B. Hill		Women in Engineering, by Ailsa Swarbrick	
			-

### **Book Review Index**

Acoustic Emissions, by R. V. Williams	408	Handbook of Powder Technology: Volume 1—Particle Size Enlargement, by C. E. Capes	124 341
Advances in Cryogenic Engineering: Volume 25, edited by K. D.	527	Heavy Gas and Risk Assessment, edited by S. Hartwig	
Advances in Transport Processes: Volume 1, edited by A. S.	408	Higgins and R. Watkinson	124
Mujumdar Air Pollution Control Engineering, by William Licht	171 30	Induction Heating Handbook, by J. Davies and P. Simpson Industrial Organic Chemicals in Perspective: Part 2—Technology,	408
Anionic Surfactants: Biochemistry, Toxicology and Dermatology, edited by C. Gloxhuber	473	Formulation and Use, by H. A. Witcoff and B. G. Reuben Industrial Pollution Control: Issues and Techniques, by Nancy Sell	171 341
Art of Electronics, The, by P. Horowitz and W. Hill  Basic Corrosion and Oxidation, by J. M. West	79 297	Introduction to Chemical Technology, by P. J. van den Berg and W. A. de Jong	241
Basic Electrical Engineering and Instrumentation for Engineers (second edition), by E. C. Bell and R. W. Whitehead	473	Kinetics of Coal Gasification, by J. L. Johnson	30
Biotechnology—Report of a Joint Working Party, Anon Bitter Harvest, by Joyce Eggington	31 407	Loss Prevention in the Process Industries, by F. P. Lees	29
Carcinogens in Industry and the Environment (Pollution Engineer-		Mass Transfer Operations (third edition), by R. E. Treybal	407
ing and Technology Series, Volume 16), edited by J. M. Sontag. Characterisation of Catalysts, edited by J. M. Thomas and R. M.		Nitrogen Oxides from Coal Combustion (Abatement and Control),	
Lambert	408 529	by G. F. Morrison	527
Chemical Engineering and the Environment, edited by A. S. Teja Chemical Plant and its Operation (including Health and Safety	339	by Irene Smith Nuclear Power and Public Policy: the Social and Ethical Problems	297
Aspects), by T. M. Cook and D. J. Cullen	30	of Fission Technology, by K. S. Schrader-Frechette	527
Chemistry and Technology of Petroleum, The, (Chemical Industries Series, Volume 3), by J. G. Speight	471	Numerical Data and Functional Relationships in Science and Technology, by Landolt-Bornstein	79
Chemistry and the Technology of Limestone, by R. S. Boynton. Coal Liquefaction Fundamentals, edited by D. D. Whitehurst	29 297	O-Water Desalting: Supplement-Volume 1, by A. A. Delyannis	*
Contemporary Polymer Chemistry, by H. R. Allcock and F. W. Lampe	410	and E. A. Delyannis	31
Cryogenics Handbook, edited by Beverly Law		Odour Control: a Concise Guide, edited by F. H. H. Valentin and A. A. North	79
Design of Industrial Catalysts, by D. L. Trimm	341	Organizational Change: a Guide for Engineers and Managers, Anon	410
Chisholm	297	Pelletising of Iron Ores, by K. Meyer	
Dynamics, Exposure and Hazard Assessment of Toxic Chemicals, edited by Rizanwul Haque	29	Pollution from Road Vehicles, Anon	
Electron Transfer Reactions, by R. D. Cannon	339	Clump, L. Maus and L. B. Andersen	
Energy Managers' Handbook, The, (2nd edition), by G. Payne Energy Storage and Transportation: Prospects for New Tech- nologies, edited by G. Beghi	473 473	Process Fluid Mechanics, by M. M. Denn	339 123
Energy Users' Data Book, edited by H. B. Locke		Pulp and Paper: Chemistry and Technology; third edition—Vol- ume 2, edited by J. P. Dasey	407
Engineer's Conscience, The, by M. W. Thring	123	Paration Vinetics and Baseton Design by I. D. Buss	160
Equilibrium-Stage Separation Operations in Chemical Engineering, by E. J. Henley and J. D. Sender	586	Reaction Kinetics and Reactor Design, by J. B. Butt	
Explosions: Course, Prevention and Protection, by W. Bartknecht	471	Seaweeds and their Uses, by V. C. Chapman and D. J. Chapman	
FRP Technology (Fibre Reinforced Resin Systems), by R. G. Weatherhead	171	Solar Energy (Chemical Conversion and Storage), edited by R. R Hautala, R. B. King and C. Kutal	
Weatherhead Freshman Chemical Engineering, by M. E. Leesley Fuel Economy Handbook	169 588	Solid/Liquid Separation Technology, by D. B. Purchas Specialist Techniques in Engineering Mathematics, by A. C. Baj	. 529
Fundamentals of Heat Transfer, by F. P. Incropera and D. P. de Witt	481	pai, L. R. Mustoe and D. Walker Steady-State Flow-Sheeting of Chemical Plants, edited by P	. 241
Fungal Biotechnology, edited by J. E. Smith, D. R. Berry and B. Kristiansen	295	Benedek	
Gas Chemistry in Nuclear Reactors and Large Industrial Plant,		Thermodynamics of Aqueous Systems with Industrial Applications (and Supplement), edited by S. A. Newman	
edited by A. Dyer	481	Topics in Enzyme and Fermentation Biotechnology—5, edited by	у
Gas/Particle Flow Fundamentals, by G. RudingerGreat Balls of Fire (Liquefied Petroleum Gases and their Potential		A. Wiseman	
for Disaster), by C. Jones and R. L. Sands		User's Guide to Vacuum Technology, A, by J. F. O'Hanlon	
Jacobs	30	What Every Engineer Should Know about Economic Decision Analysis, by D. S. Shupe:	. 529
Handbook of Organic Waste Conversion, edited by M. W. M. Beswick	124	What Every Engineer Should Know about Patents, W. G. Konol B. Tittel, D. F. Frei and D. S. Stallard	

